CONTENTS

VOL. 17, NO. 1, FEBRUARY 1987

1 *R. H. Foy and A. G. Fitzsimons:* Phosphorus inactivation in a eutrophic lake by the direct addition of ferric aluminium sulphate: changes in phytoplankton populations

15 *Neil Robinson, Peter A. Cranwell and Geoffrey Eglinton:* Sources of the lipids in the bottom sediments of an English oligo-mesotrophic lake

35 *Albert Lillehammer:* Egg development of the stoneflies *Siphonoperla burmeisteri* (Chloroperlidae) and *Dinocras cephalotes* (Perlidae)

41 *D. Moss, M. T. Furse, J. F. Wright and P. D. Armitage:* The prediction of the macro-invertebrate fauna of unpolluted running-water sites in Great Britain using environmental data

53 *Chris A. Mills:* The life history of the minnow *Phoxinus phoxinus* (L.) in a productive stream

69 *J. F. Wright:* Colonization of rivers and canals in Great Britain by *Dugesia tigrina* (Girard) (Platyhelminthes: Tricladida)

79 *J. R. Post and D. J. McQueen:* The impact of planktivorous fish on the structure of a plankton community

91 *Francie L. Smith-Cuffney and J. Bruce Wallace:* The influence of microhabitat on availability of drifting invertebrate prey to a net-spinning caddisfly

99 *U. Uehlinger and J. Bloesch:* Variation in the C:P ratio of suspended and settling seston and its significance for P uptake calculations

109 *Sandra J. Walde and Ronald W. Davies:* Spatial and temporal variation in the diet of a predaceous stonefly (Plecoptera: Perlodidae)

117 *Ralph T. Clarke, A. F. H. Marker and J. A. Rother:* The estimation of the mean and variance of algal cell volume from critical measurements

129 *Alasdair Scott:* Prey selection by juvenile cyprinids from running water

143 *Antoine Morin:* Unsuitability of introduced tiles for sampling blackfly larvae (Diptera: Simuliidae)

151 *Lars Bern:* Zooplankton grazing on [methyl-^{3}H]thymidine-labelled natural particle assemblages: determination of filtering rates and food selectivity

161 *Johnstone O. Young:* Predation on leeches in a weedy pond

169 *Hana H. Mangalo:* Variation in the intersetular distance on filter setae of *Simocephalus vetulus* (O. F. Müller) (Crustacea–Cladocera)

Opinion

177 *Geoffrey Fryer:* Quantitative and qualitative: numbers and reality in the study of living organisms

191 **Book Reviews; Short Notices**

VOL. 17, NO. 2, APRIL 1987

195 *S. R. Pezeshki, R. D. DeLaune and W. H. Patrick, Jr:* Response of the freshwater marsh species, *Panicum hemitomon* Schult., to increased salinity

201 *Lynda D. Corkum and D. C. Currie:* Distributional patterns of immature Simuliidae (Diptera) in northwestern North America

223 *Marianne V. Moore and John J. Gilbert:* Age-specific *Chaoborus* predation on rotifer prey (Erratum, p. 575) 461
237 *R. H. Foy:* A comparison of chlorophyll *a* and carotenoid concentrations as indicators of algal volume 471
251 *R. T. Edwards and J. L. Meyer:* Metabolism of a sub-tropical low gradient blackwater river 491
265 *Suzanne N. Levine and William M. Lewis, Jr:* A numerical model of nitrogen fixation and its application to Lake Valencia, Venezuela 501
275 *Landis Hare and John C. H. Carter:* Zooplankton populations and the diets of three *Chaoborus* species (Diptera, Chaoboridea) in a tropical lake 509
291 *Carrie A. Rimes and R. Goulder:* Relations between suspended bacteria, epiphytic bacteria and submerged vegetation over the spring growing season in a calcareous headstream 513
307 *Jonathan Adams, John Gee, Paul Greenwood, Simon McKelvey and Richard Perry:* Factors affecting the microdistribution of *Gammarus pulex* (Amphipoda): an experimental study 525
317 *Timo Kairesalo and Irma Koskimies:* Grazing by oligochaetes and snails on epiphytes
325 *J. H. Baker and I. S. Farr:* Importance of dissolved organic matter produced by duckweed (*Lemna minor*) in a southern English river 533
331 *John C. Priscu:* Time-course of inorganic nitrogen uptake and incorporation by natural populations of freshwater phytoplankton 547
341 *S. J. Ormerod, P. Boole, C. P. McCahon, N. S. Weatherley, D. Pascoe and R. W. Edwards:* Short-term experimental acidification of a Welsh stream: comparing the biological effects of hydrogen ions and aluminium 553
357 *Michael J. Banks and David J. Thompson:* Regulation of damselfly populations: the effects of larval density on larval survival, development rate and size in the field 565
367 *David J. Thompson:* Regulation of damselfly populations: the effects of weed density on larval mortality due to predation 569
373 *Steven S. Schwartz and Paul D. N. Hebert:* Methods for the activation of the resting eggs of *Daphnia* 573

Opinion

381 *Graham P. Harris and F. Brian Griffiths:* On means and variances in aquatic food chains and recruitment to the fisheries 575
387 **Book Reviews**

VOL. 17, NO. 3, JUNE 1987

391 *Bernard Statzner, Jean-Marc Elouard and Claude Dejoux:* Field experiments on the relationship between drift and benthic densities of aquatic insects in tropical streams (Ivory Coast). III. Trichoptera
405 *A. E. Bailey-Watts, A. A. Lyle, A. Kirika and E. J. Wise:* Coldingham Loch, S.E. Scotland. I. Physical and chemical features with special reference to the seasonal patterns in nutrients
419 *A. E. Bailey-Watts:* Coldingham Loch, S.E. Scotland. II. Phytoplankton succession and ecology in the year prior to mixer installation
429 *Kurt A. Haberyan:* Fossil diatoms and the paleolimnology of Lake Rukwa, Tanzania
437 *Tom L. Dudley and N. H. Anderson:* The biology and life cycles of *Lipsothrix* spp. (Diptera: Tipulidae) inhabiting wood in Western Oregon streams
453 *H. De Haan, R. I. Jones and K. Salonen:* Does ionic strength affect the configuration of aquatic humic substances, as indicated by gel filtration?

461 *Torben Moth Iversen and Jens Thorup:* Population dynamics and production of *Sialis lutaria* L. (Megaloptera) in the Danish River Suså
471 *D. Dudley Williams:* A laboratory study of predator–prey interactions of stoneflies and mayflies
491 *J. M. Elliott:* The distances travelled by downstream-moving trout fry, *Salmo trutta*, in a Lake District stream
501 *Per Johan Jakobsen and Geir Helge Johnsen:* The influence of predation on horizontal distribution of zooplankton species
509 *B. Fowler, J. Drake, D. Hemenway and S. I. Heaney:* An inexpensive water circulation system for studies of chemical exchange using intact sediment cores
513 *John C. Drake and S. Ivan Heaney:* Occurrence of phosphorus and its potential remobilization in the littoral sediments of a productive English lake
525 *Richard K. Johnson:* Seasonal variation in diet of *Chironomus plumosus* (L.) and *C. anthracinus* Zett. (Diptera: Chironomidae) in mesotrophic Lake Erken
533 *S. J. Ormerod and R. W. Edwards:* The ordination and classification of macroinvertebrate assemblages in the catchment of the River Wye in relation to environmental factors
547 *Milton L. Ostrofsky and Anne E. Bellmer:* The response of *Asterionella formosa* to germanium: implications for the germanium-inhibition technique for estimating diatom contribution to community productivity
553 *Anders Kullberg and Robert C. Petersen, Jr:* Dissolved organic carbon, seston and macroinvertebrate drift in an acidified and limed humic stream
565 *John E. Brittain and Albert Lillehammer:* Variability in the rate of egg development of the stonefly, *Nemoura cinerea* (Plecoptera)
569 **Book Reviews**
573 **Author Index to Volume 17**
575 **Erratum**